

## REMARKS

### Summary

Claims 1-34 were pending. In the present Office action, the Examiner has required an election of species under 35 U.S.C. § 121.

### Discussion

The Examiner has identified two patentably distinct species of the claimed invention, viz.:

**Species A** (Figures 1, 14 and 15) consists of the crystal grain boundaries formed in the antiferromagnetic layer and the crystal boundaries formed in the ferromagnetic layer are discontinuous in at least a portion of the interface.

**Species B** (Figures 26-28) consists of a twin crystal formed in at least a portion of the antiferromagnetic layer so that the twin boundaries of the twin crystals are nonparallel to the interface.

As an election of species is mandatory in response to an Examiner's requirement, the Applicants have, without prejudice, elected Species A, and submit that Claims 1-16 correspond thereto.

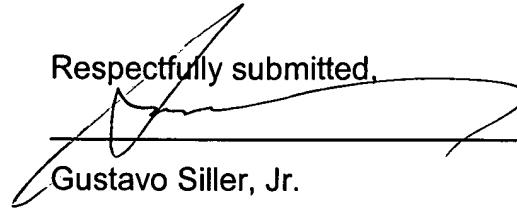
### Conclusion

The Applicants have elected Species A, and have designated Claims 1-16 as corresponding claims.

The Applicants respectfully submit that the pending claims are allowable.

The Examiner is respectfully requested to contact the undersigned in the event that a telephone interview would expedite consideration of the application.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read 'Gustavo Siller, Jr.', is written over a horizontal line.

Gustavo Siller, Jr.

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